

IN THE CLAIMS:

Please **AMEND** claims 1, 18-20 and 22 in accordance with the following:

1. **(CURRENTLY AMENDED)** An information storage medium which stores data recorded using a waveform, comprising:

a first state corresponding to a recording pattern of the waveform; and

a second state corresponding to an erase pattern of the waveform,

wherein:

the erase pattern comprises a multi-pulse having ~~with a power level of a leading pulse of the erase pattern~~ with a power level set at a low power level of the multi-pulse, and

a power level of a period between an end point of the erase pattern and a start point of a leading pulse of the recording pattern is set at a high power level of the multi-pulse, and

an end point of the recording pattern and a start point of the erase pattern are concatenated by a cooling pulse of the waveform.

2. **(ORIGINAL)** The information storage medium of claim 1, wherein:

the first state is a mark formed by a first level of an NRZI data signal, and

the second state is a space formed by a second level of the NRZI data signal.

3. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 1, wherein the cooling pulse has a power level below the low power level of the multi-pulse of the erase pattern.

4-5. **(CANCELLED)**

6. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 1, wherein the waveform includes another recording pattern in which a power level of a period between a start of the another recording pattern and an end of another erase pattern preceding the another recording pattern is adjusted according to a pulse of the multi-pulse of the another erase pattern.

7. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 1, wherein the data recorded using the waveform is modulated according to a Run Length Limited (RLL)(1, 7).

8. (CANCELLED)

9. (PREVIOUSLY PRESENTED) The information storage medium of claim 1, wherein:
the recording pattern comprises another multi-pulse, and
a first one of the another multi-pulses of the recording pattern after the period has a power that is other than the low power level of the leading pulse of the erase pattern.

10. (PREVIOUSLY PRESENTED) The information storage medium of claim 9, wherein:
the recording pattern comprises another multi-pulse, and
a first one of the another multi-pulses of the recording pattern after the period has a power that is greater than the low power level of the leading pulse of the erase pattern.

11. (CANCELLED)

12. (PREVIOUSLY PRESENTED) The information storage medium of claim 10, wherein
the power of the first one of the another multi-pulses of the recording pattern is greater than the high power level of the erase pattern.

13. (PREVIOUSLY PRESENTED) The information storage medium of claim 9, wherein
the power of the leading pulse of the another multi-pulse of the recording pattern is greater than the power of the period between the end point of the erase pattern and the start point of the leading pulse of the another multi-pulse of the recording pattern.

14. (PREVIOUSLY PRESENTED) The information storage medium of claim 9, wherein
the another multi-pulse of the recording pattern further comprises a recording pulse having a recording power greater than the high power level of the erase pattern.

15. (PREVIOUSLY PRESENTED) The information storage medium of claim 10, wherein
the another multi-pulse of the recording pattern further comprises a recording pulse having a recording power greater than the high power level of the erase pattern.

16. (PREVIOUSLY PRESENTED) The information storage medium of claim 1, wherein
the high power level of the period is other than a power level of a last pulse of the multi-pulse of the erase pattern.

17. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 9, wherein the cooling pulse has a cooling power less than a power of a last pulse of the another multi-pulse of the recording pattern and less than the low power level of the leading pulse of the multi-pulse of the erase pattern.

18. **(CURRENTLY AMENDED)** The information storage medium of claim 1, wherein the high power level of the period is other than a power level of a last pulse of the multi-pulse of the erase pattern.

19. **(CURRENTLY AMENDED)** An information storage medium which stores data recorded using a waveform, comprising:

a first state corresponding to a recording pattern of the waveform; and

a second state corresponding to an erase pattern of the waveform,

wherein:

the erase pattern comprises a multi-pulse having a high power level and a low power level,

the multi-pulse of the erase pattern comprises a power level of a leading pulse of the erase pattern with a power level set at a ~~the~~ high power level of the multi-pulse, and

a power level of a period between an end point of the erase pattern and a start point of a leading pulse of a recording pattern at the high power level of the multi-pulse, and

the recording pattern and the erase pattern are concatenated by a cooling pulse of the waveform.

20. **(CURRENTLY AMENDED)** An information storage medium which stores data recorded using a waveform, comprising:

a first state corresponding to a recording pattern of the waveform; and

a second state corresponding to an erase pattern of the waveform,

wherein:

the erase pattern comprises a multi-pulse having a high power level and a low power level,

the multi-pulse of the erase pattern comprises a power level of a leading pulse of the erase pattern with a power level set at a ~~the~~ low power level of the multi-pulse, and

a power level of a period between an end point of the erase pattern and a start

point of a leading pulse of the recording pattern at the low power level of the multi-pulse, and
the recording pattern and the erase pattern are concatenated by a cooling pulse
of the waveform, and

the cooling pulse has a cooling power less than a power of the low power level of
the multi-pulse of the erase pattern.

21. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 19, wherein
the high power level of the period is other than a power level of a last pulse of the multi-pulse of
the erase pattern.

22. **(CURRENTLY AMENDED)** The information storage medium of claim 20, wherein the
low power level of the period is ~~other than a~~ power level of a last pulse of the multi-pulse of the
erase pattern.